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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Attorney Docket Number	3382-61340-01
	Application Number	10/017,694
	Filing Date	December 14, 2001
	First Named Inventor	Chen
	Art Unit	2654
	Examiner Name	Storm

U.S. PATENT DOCUMENTS

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Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
DLS		5,586,200	12.17.1996	Devaney et al.
DLS		6,522,693	2.18.2003	Lu et al.
DLS		6,654,419	11.25.2003	Sriram et al.
DLS		US-2002/0176624	11.28.2002	Kostrzewski et al.
DLS		US-2003/0110236	6.12.2003	Yang et al.
DLS		US-2005/0015528	1.20.2005	Du
DLS		US-2005/0084166	4.21.2005	Boneh et al.

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
DLS		Li et al., "Optimal Linear Interpolation Coding for Server-Based Computing," *Proc. IEEE Int'l Conf. on Communications*, 5 pp. (2002).
DLS		Ronda et al., "Rate Control and Bit Allocation for MPEG-4," *IEEE Transactions on Circuits and Systems for Video Technology*, pp. 1243-1258 (1999).
DLS		Schaar-Mitrea et al., "Hybrid Compression of Video with Graphics in DTV Communication Systems," *IEEE Trans. on Consumer Electronics*, pp. 1007-1017 (2000).
DLS		Vetro et al., "An Overview of MPEG-4 Object-Based Encoding Algorithms," *IEEE International Symposium on Information Technology*, pp. 366-369 (2001).

EXAMINER SIGNATURE: Donald L. Storm	DATE CONSIDERED: 8/11/05

* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Art Unit	2631
	Examiner Name	Donald Storm

U.S. PATENT DOCUMENTS

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Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
DLS		4,051,470	9.27.1977	Esteban et al.
DLS		5,457,495	10.10.1995	Hartung
DLS		5,467,134	11.14.1995	Laney et al.
DLS		5,579,430	11.26.1996	Grill et al.
DLS		5,742,735	4.21.1998	Eberlein et al.
DLS		5,819,215	10.6.1998	Dobson et al.
DLS		5,835,149	11.10.1998	Astle
DLS		6,029,126	2.22.2000	Malvar
DLS		6,111,914	8.29.2000	Bist
DLS		6,182,034	1.30.2001	Malvar
DLS		6,370,502	4.9.2002	Wu et al.
DLS		6,574,593	6.3.2003	Gao et al.
DLS		US-2002-0143556-A1	10.03.2002	Kadatch

EXAMINER SIGNATURE: Donald L. Storm	DATE CONSIDERED: 8/11/05

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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
DLS		Advanced Television Systems Committee, "ATSC Standard: Digital Audio Compression (AC-3), Revision A," pp. 1-140 (August 2001).
DLS		Baron et al., "Coding the Audio Signal," *Digital Image and Audio Communications*, pp. 101-128, (1998).
DLS		Cheung et al., "A Comparison of Scalar Quantization Strategies for Noisy Data Channel Data Transmission," *IEEE Transactions on Communications*, Vol. 43, No. 2/3/4, pp. 738-742 (April 1995).
DLS		Crisafulli et al., "Adaptive Quantization: Solution via Nonadaptive Linear Control," *IEEE Transactions on Communications*, Vol. 41, pp. 741-748 (May 1993).
DLS		Dalgic et al., "Characterization of Quality and Traffic for Various Video Encoding Schemes and Various Encoder Control Schemes," Technical Report No. CSL-TR-96-701 (August 1996).
DLS		Gibson et al., "Quantization," Digital Compression for Multimedia, Chapter 4, pp. 113-138 (1998).
DLS		Gibson et al., "Frequency Domain Speech and Audio Coding Standards," Digital Compression for Multimedia, Chapter 8, pp. 263-290 (1998).
DLS		Gibson et al., "MPEG Audio," Digital Compression for Multimedia, Chapter 11.4, pp. 398-402 (1998).
DLS		Gibson et al., "More MPEG," Digital Compression for Multimedia, Chapter 11.6.2-11.6.4, pp. 415-416 (1998).
DLS		ISO/IEC 13818-7, "Information Technology-Generic Coding of Moving Pictures and Associated Audio Information," Part 7: Advanced Audio Coding (AAC), pp. i-iv, 1-145 (1997).
DLS		ISO/IEC 13818-7, Technical Corrigendum 1, "Information Technology-Generic Coding of Moving Pictures and Associated Audio Information," Part 7: Advanced Audio Coding (AAC), Technical Corrigendum, pp. 1-22 (1997).
DLS		ISO, "MPEG-4 Video Verification Model version 18.0," ISO/IEC JTC1/SC29/WG11 N3908, Pisa, pp. 1-10, 299-311 (January 2001).
DLS		Jafarkhani, H., et al. "Entropy-Constrained Successively Refinable Scalar Quantization," *IEEE Data Compression Conference*, pp. 337-346 (1997).

EXAMINER SIGNATURE: Donald L. Storm	DATE CONSIDERED: 8/11/05

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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
DLS		Jayant et al., "Digital Coding of Waveforms, Principles and Applications to Speech and Video," Prentice Hall, pp. 428-445 (1984).
DLS		Naveen et al., "Subband Finite State Scalar Quantization," *IEEE Transactions on Image Processing*, Vol. 5, No. 1, pp. 150-155 (January 1996).
DLS		Ortega et al., "Optimal Buffer-Constrained Source Quantization and Fast Approximation," *IEEE*, pp. 192-195 (1992)
DLS		Ortega et al., "Adaptive Scalar Quantization Without Side Information," *IEEE Transactions on Image Processing*, Vol. 6, No. 5, pp. 665-676 (May 1997).
DLS		Ramchandran et al., "Bit Allocation for Dependent Quantization with Applications to MPEG Video Coders," *IEEE*, pp. v-381 - v-384 (1993)
DLS		Ratnakar et al., "RD-OPT: An Effieient Algorithm for Optimization DCT Quantization Tables," 11 pp.
DLS		Sidiropoulos, "Optimal Adaptive Scalar Quantization and Image Compression," *ICIP*, pp. 574-578, (1998).
DLS		Sullivan, "Optimal Entropy Constrained Scalar Quantization for Exponential and Laplacian Random Variables," *ICASSP*, pp. V-265 - V-268 (1994).
DLS		Trushkin, "On the Design on an Optimal Quantizer," *IEEE Transactions on Information Theory*, Vol. 39, No, 4, pp. 1180-1194 (July 1993).
DLS		Westerink et al., "Two-pass MPEG-2 Variable-bit-rate Encoding," *IBM J. Res. Develop.*, Vol. 43, No. 4, pp. 471-488 (1999)
DLS		Wong, "Progressively Adaptive Scalar Quantization," *ICIP*, pp. 357-360, (1996).
DLS		Wu et al., "Entropy-Constrained Scalar Quantization and Minimum Entropy with Error Bound by Discrete Wavelet Transforms in Image Compression," *IEEE Transactions on Image Processing*, Vol. 48, No. 4, pp. 1133-1143 (April 2000).
DLS		Wu et al., "Quantizer Monotonicities and Globally Optimally Scalar Quantizer Design," *IEEE Transactions on Information Theory*, Vol. 39, No. 3, pp. 1049-1053 (May 1993).

EXAMINER SIGNATURE: Donald L. Storm	DATE CONSIDERED: 8/11/05

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	Applicant: Chen et al.	
	Filed: December 14, 2001	Art Unit: 2631

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U.S. PATENT DOCUMENTS

Init.*		Number	Date	Name	Class	Sub	Filed
DLS		5,686,964	11.11.97	Tabatabai et al.			
DLS		5,845,243	12.01.98	Smart et al.			
DLS		5,995,151	11.30.99	Naveen et al.			
DLS		6,115,689	09.05.00	Malvar			

8/23/05

OTHER DOCUMENTS

DLS			Gibson et al., Digital Compression for Multimedia, Title Page, Contents, "Chapter 7: Frequency Domain Coding," Morgan Kaufman Publishers, Inc., pp. iii, v-xi, and 227-262 (1998).
DLS			H.S. Malvar, Signal Processing with Lapped Transforms, Artech House, Norwood, MA, pp. iv, vii-xi, 175-218, and 353-57 (1992).
DLS			H.S. Malvar, "Lapped Transforms for Efficient Transform/Subband Coding," *IEEE Transactions on Acoustics, Speech and Signal Processing*, Volume 38, No. 6, pp. 969-78 (1990).
DLS			Seymour Schlien, "The Modulated Lapped Transform, Its Time-Varying Forms, and Its Application to Audio Coding Standards," *IEEE Transactions on Speech and Audio Processing*, Vol. 5, No. 4, pp. 359-66 (July 1997).
DLS			de Queiroz et al., "Time-Varying Lapped Transforms and Wavelet Packets," *IEEE Transactions on Signal Processing*, Vol. 41, pp. 3293-3305 (1993).
DLS			Herley et al., "Tilings of the Time-Frequency Plane: Construction of Arbitrary Orthogonal Bases and Fast Tiling Algorithms," *IEEE Transactions on Signal Processing*, Vol. 41, No. 12, pp. 3341-59 (1993).

EXAMINER: [signature] DATE 1/21/05

*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.

KBR:iar 05/01/2002 3382-61340 105947

CORRECTED 8/23/05 DLS

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	Applicant: Chen et al.	
	Filed: December 14, 2001	Art Unit: 2631

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OTHER DOCUMENTS

✓	DLS			ISO/IEC 11172-3, Information Technology -- Coding of Moving Pictures and Associated Audio for Digital Storage Media at Up to About 1.5 Mbit/s -- Part 3: Audio, 154 pp. (1993).
✓	DLS			Dolby Laboratories, "AAC Technology," 4 pp. [Downloaded from the web site aac-audio.com on World Wide Web on November 21, 2001.]
✓	DLS			Srinivasan et al., "High-Quality Audio Compression Using an Adaptive Wavelet Packet Decomposition and Psychoacoustic Modeling," *IEEE Transactions on Signal Processing*, Vol. 46, No. 4, pp. 1085-93 (April 1998).
✓	DLS			Caetano et al., "Rate Control Strategy for Embedded Wavelet Video Coders," *Electronics Letters*, pp. 1815-17 (October 14, 1999).
✓	DLS			Ribas Corbera et al., "Rate Control in DCT Video Coding for Low-Delay Communications," *IEEE Transactions on Circuits and Systems for Video Technology*, Vol. 9, No. 1, pp. 172-85 (February 1999).
✓	DLS			Zwicker et al., Das Ohr als Nachrichtenempfänger, Title Page, Table of Contents, "I: Schallschwingungen," Index, Hirzel-Verlag, Stuttgart, pp. III, IX-XI, 1-26, and 231-32 (1967).
✓	DLS			Terhardt, "Calculating Virtual Pitch," *Hearing Research*, 1:155-182 (1979).
✓	DLS			Lufti, "Additivity of Simultaneous Masking," *Journal of Acoustic Society of America*, 73:262-267 (1983).
✓	DLS			Jesteadt et al., "Forward Masking as a Function of Frequency, Masker Level, and Signal Delay," *Journal of Acoustical Society of America*, 71:950-962 (1982).

EXAMINER: Donald L. Stan	DATE: 1/21/05

*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.

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	Applicant: Chen et al.	
	Filed: December 14, 2001	Art Unit: 2631

OTHER DOCUMENTS

✓	DS			ITU, Recommendation ITU-R BS 1387, Method for Objective Measurements of Perceived Audio Quality, 89 pp. (1998).
✓	DS			ITU, Recommendation ITU-R BS 1115, Low Bit-Rate Audio Coding, 9 pp. (1994).
✓	DS			Beerends, "Audio Quality Determination Based on Perceptual Measurement Techniques," Applications of Digital Signal Processing to Audio and Acoustics, Chapter 1, Ed. Mark Kahrs, Karlheinz Brandenburg, Kluwer Acad. Publ., pp. 1-38 (1998).
✓	DS			Zwicker, Psychoakustik, Title Page, Table of Contents, "Teil I: Einfuhrung," Index, Springer-Verlag, Berlin Heidelberg, New York, pp. II, IX-XI, 1-30, and 157-162 (1982).
✓	DS			Solari, Digital Video and Audio Compression, Title Page, Contents, "Chapter 8: Sound and Audio," McGraw-Hill, Inc., pp. iii, v-vi, and 187-211 (1997).
✓	DS			A.M. Kondoz, Digital Speech: Coding for Low Bit Rate Communications Systems, "Chapter 3.3: Linear Predictive Modeling of Speech Signals" and "Chapter 4: LPC Parameter Quantisation Using LSFs," John Wiley & Sons, pp. 42-53 and 79-97 (1994).
✓	DS			Kadatch, U.S. Patent Application Serial No. 09/771,371, entitled, "Quantization Loop with Heuristic Approach," filed January 26, 2001.
✓	DS			Chen et al., U.S. Patent Application Serial No. 10/017,702, entitled, "Quantization Matrices for Digital Audio," filed December 14, 2001.
✓	DS			Chen et al., U.S. Patent Application Serial No. 10/017,861, entitled, "Techniques for Measurement of Perceptual Audio Quality," filed December 14, 2001.

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	Filed: December 14, 2001	Art Unit: 2631

OTHER DOCUMENTS

✓	DLS		Chen et al., U.S. Patent Application Serial No. 10/020,708, entitled, "Adaptive Window-Size Selection in Transform Coding," filed December 14, 2001.
✓	DLS		Chen et al., U.S. Patent Application Serial No. 10/016,918, entitled, "Quality Improvement Techniques in an Audio Encoder," filed December 14, 2001.
✓	DLS		Wragg et al., "An Optimised Software Solution for an ARM Powered™ MP3 Decoder," 9 pp. [Downloaded from the World Wide Web on October 27, 2001.]
✓	DLS		Fraunhofer-Gesellschaft, "MPEG Audio Layer-3," 4 pp. [Downloaded from the World Wide Web on October 24, 2001.]
✓	DLS		Fraunhofer-Gesellschaft, "MPEG-2 AAC," 3 pp. [Downloaded from the World Wide Web on October 24, 2001.]
✓	DLS		OPTICOM GmbH, "Objective Perceptual Measurement," 14 pp. [Downloaded from the World Wide Web on October 24, 2001.]
✓	DLS		De Luca, "AN1090 Application Note: STA013 MPEG 2.5 Layer III Source Decoder," STMicroelectronics, 17 pp. (1999).
✓	DLS		Phamdo, "Speech Compression," 13 pp. [Downloaded from the World Wide Web on November 25, 2001.]
✓	DLS		Malvar, "Biorthogonal and Nonuniform Lapped Transforms for Transform Coding with Reduced Blocking and Ringing Artifacts," appeared in *IEEE Transactions on Signal Processing, Special Issue on Multirate Systems, Filter Banks, Wavelets, and Applications*, vol. 46, 29 pp. (1998).

EXAMINER: Donald L. Storm	DATE: 11/21/05

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